COMPANY NAME PERKIN-ELMER	ENGINEERING STUDY ☐ CHANGE PROPOSAL ☒	Proposal No. PE-30
DATE October 9, 1963	AFFECTS: WSPO ☐ PROJECT ☒	

NAME OF MAJOR COMPONENT Tracking Camera	PART OR LOWEST SUBASSEMBLY	PART NO. & MODEL OR TYPE 151-0012 MK 1A

TITLE OF PROPOSAL: Visual frame counter for MK 1A Tracking Camera

NATURE OF PROPOSAL:

Add three-digit counter to control panel as indicator of exposed frames. Counter to be supplied in kit form and installed by technical representatives at field sites. Sample conversion chart attached.

REASON FOR PROPOSAL:

At time hatch is lowered, counter will indicate success of tracker operation and amount of footage exposed. Det "H" indicates that time saved by this method versus removing tracker from hatch, transporting unit to darkroom, unloading and physically measuring amount of exposed material is a very desirable feature.

ES	ESTIMATED COST AND TIME INVOLVED: ADDITIONAL FUNDING REQUIRED:
CP	ESTIMATED COST FOR KITS OR PARTS: $76.00 Kit (Based on 12 Kit suggested qty) ADDITIONAL FUNDING REQUIRED:

ITEMS AFFECTED BY PROPOSAL:

Safety	Mission Effectiveness	Performance	Operating Procedure	Interchangeability	Weight or Weight & Balance	Tools & Support Equipment	Maintenance Procedure	Service Life	Flight Manual	Maintenance Manual
☐	☒	☐	☒	☐	☐	☐	☐	☐	☐	☐

EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD   5 Hours

SOURCE OF PARTS FOR KIT Contractor	AVAILABILITY 5 WEEKS AFTER APPROVAL
DISPOSITION OF SPARES AFFECTED N/A	STATINTL

INITIATED BY:	APPROVED: WSPO PROJ

Conversion Chart - Frame Counter
(To be supplied in laminated form)

Cycle	Feet	Time In Hours
100	87.300	.90
150	130.950	1.35
200	174.600	1.80
250	218.250	2.25
300	261.900	2.70
350	305.550	3.15
400	349.200	3.60
450	392.850	4.05
500	436.500	4.50
550	480.150	4.95
600	523.800	5.40
650	567.450	5.85
700	611.100	6.30
750	654.750	6.75
800	698.400	7.20
850	742.050	7.65
900	785.700	8.10
950	829.350	8.55
1000	873.000	9.00
1050	916.650	9.45
1150	960.300	9.90
1200	1003.950	10.35

Cycle	Feet	Time In Hours
1	.873	.009
2	1.746	.018
3	2.619	.027
4	3.492	.036
5	4.365	.045
6	5.238	.054
7	6.111	.063
8	6.984	.072
9	7.857	.081
10	8.730	.090
11	9.603	
12	10.476	
13	11.349	
14	12.222	
15	13.095	
16	13.968	
17	14.841	
18	15.714	
19	16.587	
20	17.460	.180
21	18.333	
22	19.206	
23	20.079	
24	20.952	
25	21.825	

Cycle	Feet	Time In Hours
26	22.698	
27	23.571	
28	24.444	
29	25.317	
30	26.190	.270
31	27.063	
32	27.936	
33	28.809	
34	29.682	
35	30.555	
36	31.428	
37	32.301	
38	33.174	
39	34.047	
40	34.920	.360
41	35.793	
42	36.666	
43	37.539	
44	38.412	
45	39.285	
46	40.158	
47	41.031	
48	41.904	
49	42.777	
50	43.650	.450